



Green Optima

The Future is Integrated



COMPANY PROFILE

www.greenoptima.ae

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ABOUT US

Founded in 2006, Green Optima is a reputable and experienced system integrator, delivering innovative, high-quality, and economically orientated integrated building management solutions.

Our team of experienced professional engineers has vast knowledge, backed by decades of experience, and delivers customized solutions with top of the range control, monitoring, energy, and cost-saving objectives as priority. We add value by understanding the core of your business and providing you with tailor-made, client-focused and business-oriented solutions.

We are actively involved in successfully implementing integrated automation solutions, in both Public and Private sectors, for retrofit and ESCO companies. Our core strength is our proven ability to timely deliver and implement cost-efficient solutions, at high-quality professional levels, being backed by a strong projects' portfolio.



OUR
Mission

Our Mission is to provide you with tailor-made, business-oriented solutions, leading to sustainability, energy and cost efficiency, while maintaining the highest levels of professionalism.



OUR
Vision

Our Vision is to be known as the leading technology and service provider for sustainable buildings, based on Greentech and smart buildings. To continue being an active member of the global community and to making greener, more connected, and smarter city infrastructure.

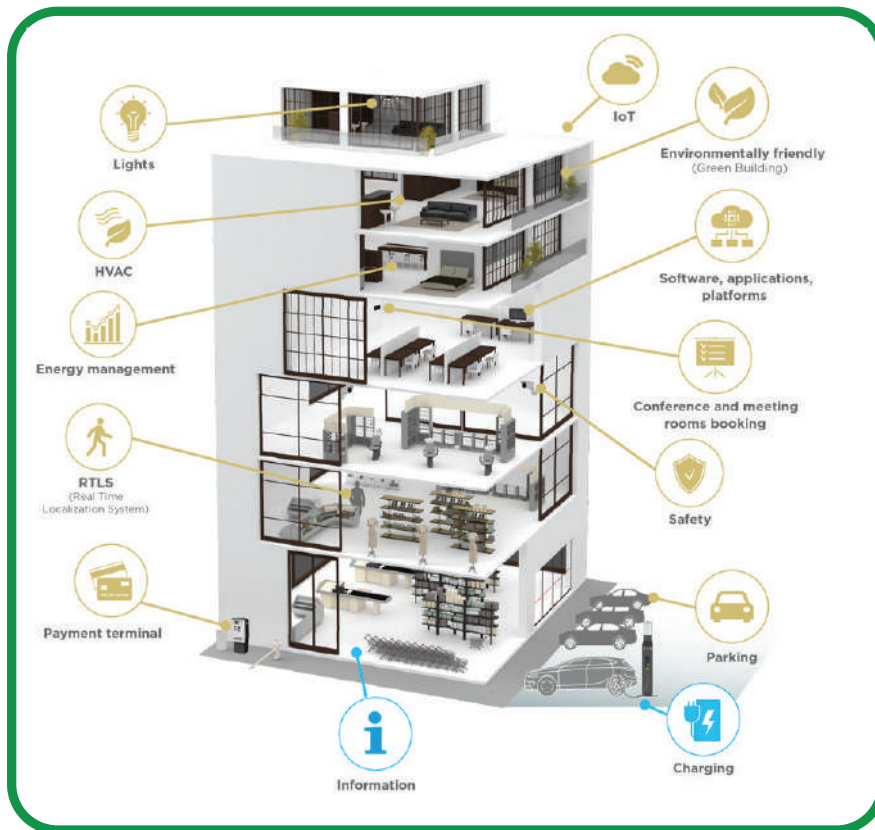
We strive to optimize your building's operations, through our integrated approach to building management systems, all while caring for the environment. Green Optima is committed to excel in providing you with bespoke, world-class energy control solutions for industrial, commercial, and residential infrastructure. We rely on teamwork, ensuring our local strength delivers at international standards.

SOLUTIONS

We offer, in-house, a full-fledged solutions package, which can be tailor-made to suit your needs. Green Optima's wide range of solutions focuses on enhancing and optimizing the living environment for occupants, facility managers and building owners. We leverage the latest technology to provide you with smart solutions based on AI, IoT and Machine Learning. Green Optima is your partner from the early stages, from concept to design and implementation of integrated building automation solutions.

Energy Saving and Smart Buildings Integration Specialists

- Building Management System (BMS)
- Energy Management System
- Integrated BMS (IBMS)
- Energy Metering
- Chiller Plant Manager
- Energy Dashboards
- Standalone HVAC Controls
- Remote Monitoring System
- MCC and VFD Panels
- Internet of Things (IoT)
- Lighting Control System
- Wireless Control Systems



Supply

Engineering

Installation

Commisioning

Maintenance

SOLUTIONS

Open Framework- Connecting Intelligent Systems

Niagara Framework® is a comprehensive software infrastructure that addresses the challenges of creating device-to-enterprise applications. It serves as a central console for connecting real-time operational data to the people and systems that manage workflows in smart buildings, data centers, industrial processes, smart cities and other aspects of business enterprises.

Niagara provides the critical, cyber-secure device connectivity and data normalization capabilities needed to acquire and unlock operational data from device-level and equipment-level silos.

From buildings and data centers to manufacturing systems and smart cities, the Niagara Framework improves strategic decision-making, allowing for optimized performance and cost reductions that can help businesses be more competitive and more profitable. With the release of Niagara 4 and the JACE 8000 controller, the opportunity to achieve operational excellence is even greater than before.



Green Optima offers a building management system that is controlled by complex automated algorithms, to be installed in your building, in order to maximize energy savings, comfort, and safety, whilst offering the building owners increased data output transparency.

Most of the time the capabilities of BMS are not fully utilized, and proper systems are not engineered correctly, which is why you need an experienced installer with a proven track record. We offer several solutions ranging from complex integrated multi-protocol BMS systems to stand-alone control systems in addition to retrofit and sustainable building solutions.

TRIDIUM

NIAGARA 4

Open 4 Performance

Niagara builds on the legacy of the Niagara Framework in new and exciting ways. It's less reliant on browser plug-ins, faster and easier to use. Now end users can directly access, analyze and act on a wide range of operational data.

A truly open framework, Niagara 4 delivers a variety of notable improvements to help businesses take full advantage of the IoT, including advanced visualization and new search, security and navigation tools. Niagara 4 features an intuitive HTML5 interface.

AN ALL-NEW USER INTERFACE

Niagara4 features a bold and intuitive new interface. Modern and easy to use, the platform utilizes HTML5 to provide an array of rich features. Our powerful new UI framework makes the user experience simpler, giving users maximum control of their data and decisions. The optimized workflow allows users to find and visualize data points quickly based on a powerful tagging system. New features include a built-in search function, customizable charting and visualization, role-based security, real-time troubleshooting, and rapid navigation. Niagara 4's use of HTML5 provides a user interface that makes it easier for system integrators to create and maintain customized views for end users.

For more than 15 years, Tridium's Niagara Framework has fundamentally changed the way devices and systems connect to people and the ways people can control and optimize those machines.



Niagara's truly open environment harnesses the power of the Internet of Things in ways never before imagined or possible

JACE® 8000 CONTROLLER

A Modular Approach 4 Global Design

Optimized for Niagara 4, Tridium has created an all-new hardware platform: the JACE 8000 controller. This "next-generation" controller features a new global design that functions with legacy systems and can scale for future needs.

EFFICIENT GLOBAL DESIGN

The new, modular design of the JACE 8000 controller makes it easy to install, integrate and deploy. Tool-less installation with expansion capability reduces installation complexity and improves flexibility. System integrators can focus on engineering solutions, not assembling components. And their lives will be simplified with a global power supply and improved access.

WIRELESS CAPABILITY

Standards Wi-Fi offers enhanced wireless capability when interfacing with the next generation of wireless sensors and devices. The JACE 8000 controller is also configurable as an access point so that mobile phones and tablets can display information and advanced graphics. Expansion is also available when interfacing with other wireless fieldbuses seen in connected buildings.

OPTIMIZED FOR NIAGARA 4

The JACE 8000 controller leverages the exciting new features of Niagara 4. It adds to the enhanced user experience, maximizing Niagara 4's key advantages: pure Web interface based on HTML 5 views, charting and data visualization, a common design language, better reporting, robust security, and improved device management.

With simple configuration, tool-less installation, low-cost integration, and high-powered performance, the JACE 8000 controller is a dramatic evolution in connecting and controlling devices worldwide.



JACE 8000 Controller

Key features:

- Powerful Niagara 4 hardware platform with easy software upgrade capability
- Modular hardware design for fast and easy installation
- Expandable with up to four option modules
- Native Wi-Fi capability
- 24VAC/DC- standards global power supply
- Standard open drivers included
- Easy to select the right capacity license
- Intuitive user interface
- Rich choice of different colors, materials and finishes for differentiated OEM brand identification

PRIVA

Creating a climate for growth

Priva develops and delivers products and services for sustainable, innovative climate and process control, through a network of partners and dealers for end users in the building and horticulture market. Priva is a Dutch company, founded in 1959. Since 1983 Priva produces and develops hardware and software for building automation.

Priva solutions for building automation are being used in offices, hotels, hospitals, and schools, but also in industrial environments and data centers. During the lifecycle of a building, Priva contributes to sustainability, welfare and efficiency and the reduction of the total costs of ownership.

By selecting a Priva system you choose freedom and certainty. The Priva Blue ID controller and Comforte CX room controller, combined with the Priva Top Control software platform, form the basis for intelligent building management systems. In addition, Priva offers solutions for energy management and a platform for integration of all building related systems.

INNOVATIVE SOFTWARE FOR EFFICIENCY AND EASE OF USE- PRIVA TOP CONTROL

A complete software platform for intelligent building management. From an integrated environment, buildings are efficiently maintained and managed. The engineering application contains a wide range of standardized, freely configurable control modules. Amongst others, there are modules for heating, cooling ventilation and thermal storage.

These modules make the engineering fast and easy. Once a project is defined in TC Engineer, the software automatically generates graphics for PC operation, documentation, descriptions of the installation and BACnet conversions. For the end user, operating the system is easy and simple because of the graphical user interface of TC Manager.

POWERFUL, FLEXIBLE HARDWARE

The powerful Priva Blue ID controllers are the heart of the building management system. The modular system is suitable for any type of installation and for both small and large, multi-site projects, whether it is a new construction or retrofit project.

The BTL-certified hardware of Priva Blue ID communicates with a wide range of sensors and actuators via a large number of protocols. As a result, almost every combination of technical solutions is possible. When refurbishing, you can renew the functional system, while retaining the existing field equipment and infrastructure. Priva 2 one of Priva's highest prolific innovation, makes it possible to reuse existing cabling during retrofit work.

INDIVIDUAL ROOM CONTROL

The ComforteCX product line is our solution to control individual spaces. It enables the integration of a range of functions, for example climate control, lighting and blinds and ensures a high level of comfort. The modular system can be adapted to changes in the layout of a room or floor. The Comforte CX VAV Controller regulates ventilation and ensures fresh air, based on data such as temperature and CO2 content. The Comforte CX product line is operated through the Comset CX room unit of the Priva Blue ID TouchPoint.

Building Automation <ul style="list-style-type: none"> • Heating • Ventilation • Air Handling • Cooling 	Building Management <ul style="list-style-type: none"> • Graphical Interface • Integration • Trending & Logging • Calendar/Schedule • Alarming
Individual Room Automation <ul style="list-style-type: none"> • Climate • Light • Sun blinds 	Energy Management <ul style="list-style-type: none"> • Energy Monitoring • Analysis • Optimization

- PRIVA SYSTEMS IN SHORT**

 - Fast installation, easy to maintain and always expandable
 - Freedom of choice of field devices
 - Tested, efficient and energy saving controls with built-in expertise
 - Possibilities for on-site and remote management
 - Easy integration with other systems in your building
 - Open system, using standard protocols to exchange information



PRODUCTS

All the system components are sourced from highly reliable suppliers. We offer an integrated building management system sourced from Tridium and Priva BV. Additionally, our energy management software as a service originates from Niagara 4 and Priva TC energy.



Tridium is a global leader in business application frameworks that have fundamentally changed the way devices and systems connect. Tridium are passionate innovators developing the operating systems of the Internet of Things.



PRIVA creates a climate for growth, leading the way in the development and production of technology for the optimization of environmental conditions and process management. PRIVA provides solutions for horticulture, building automation and anything in between, with a unique combination of software, hardware, and services.



Global Control 5 offers the simple, flexible and open iSMA system to manage the buildings. The solutions are based on the world standard Niagara Framework®. The ability to integrate Niagara Framework® with the other systems allows building managers to obtain a flexible selection of products.



4-noks is a brand of Astrel Group, a company specialising in the design and production of electronic solutions for the energy and wellbeing markets in the era of the Internet of Things. 4-noks products are specially designed for use in the photovoltaic, energy saving and smart automation sectors.



Established in 1973, ND Metering Solutions has a global reputation for accurate and reliable energy management sub meters and CTs with open protocol MODBUS, M-Bus, Ethernet and Pulsed output communication options.



Belimo is the worldwide leader for actuator and valve technology in heating, ventilation and air conditioning systems. They offer a complete range of products from one source with a reputation for excellent reliability.



Dwyer is a global leader in designing and manufacturing innovative controls, sensors and instrumentation solutions. Dwyer holds over 650 technical patents and that number grows every year.



Facilio empowers the existing building infrastructure with real time data-driven intelligence, bringing the critical aspect of asset maintenance and the efficiency aspect of energy management in one place. Facilio uses IoT and ML driven technology to derive meaning out of mines of siloed data from existing automation systems.

PRODUCTS

Integrated Building Management Systems Tridium, PRIVA



Energy Management System Products PRIVA TC ENERGY, Niagara 4, CTS, Facilio



Field Devices and Sensors Dwyer



Energy Metering Solutions Landis Gyr, ONICON, ND Meter



Wireless Products 4Noks, Enless



Control Valves & Actuators BELIMO



SUCCESS STORIES

Khalifa Port, Abu Dhabi, UAE



Khalifa Port and Industrial Zone (KPIZ) is a multi-purpose facility that involves the construction of a world-scale container and industrial port in addition to the development of over 100 square kilometres of industrial, logistics, commercial, educational, and residential special economic and free zones.

Green Optima carried out the building management and energy management systems for package 208 and 209, controlling the AED 320 million for package 208 and AED 410 million for package 209, and MEP works for the Khalifa Port and Industrial Zone (KPIZ) in Taweelah, Abu Dhabi.

Fast Facts:

- One of the biggest MEP projects in the region.
- Package 208 consists of 29 buildings with the largest measuring 75,000 square metres, and another 28 smaller buildings, therefore the entire project measures about 112,000 square metres.
- Package 209 consists of 23 offshore buildings.
- Green Optima designed, engineered, supplied & commissioned an open building automation system to control its building services with the ability to utilise leading edge internet technology which is energy efficient and easily expandable to support planned future developments.

SUCCESS STORIES

Park Place Tower, Dubai, UAE



Park Place is a 56-floor mixed-use tower on Sheikh Zayed Road in Dubai, United Arab Emirates. The tower has a total structural height of 234.1 m (768 ft), making it the 47th tallest building in Dubai. The initial BMS, from Honeywell, was becoming old and obsolete, replacement controllers being difficult to source while service charges were considerably increasing.

The Facility had HVAC, Electrical, Plumbing and ELV systems connected to the BMS. The Client's focus was to find an open platform for the BMS that can be operated and maintained at a low operating cost, and to connect all the existing room controllers for VAVs and FCUs and integrate them into the new BMS.

Fast Facts:

- Green Optima replaced the existing DDCs with Tridium JACE and Edge 10 Controllers and IO modules, thus unlocking the system and providing the client with an open framework protocol.
- We delivered a cost-cutting and energy efficient solution, by ensuring an open platform and being able to reuse existing DDC Panels, field devices, and wiring.
- Developed newly customized graphics, histories and alarms.
- Provided the client with a completely open protocol and upgraded BMS with low operating and maintenance costs.

HIGHLIGHTED PROJECTS



Grand Millennium Hotel, Al Barsha



Oasis Shopping Centre, Al Quoz



Ramada Chelsea Hotel, Al Barsha



The American School of Creative Science



Aldar Headquarters, Abu Dhabi



Warehouse for Kuehne + Nagel DWC LLC



Iconic Greenhouse-Sea Palace



Procter & Gamble Head Office

HIGHLIGHTED PROJECTS



Dubai International Academy



Fairmont The Palm



DEWA Head Office & Other Offices



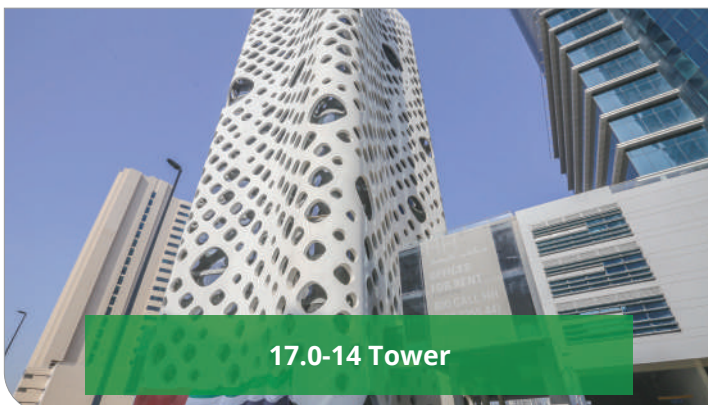
Wasl Vita Mall



Oceana Residence, The Palm Jumeirah



Executive Office Buildings, Healthcare City

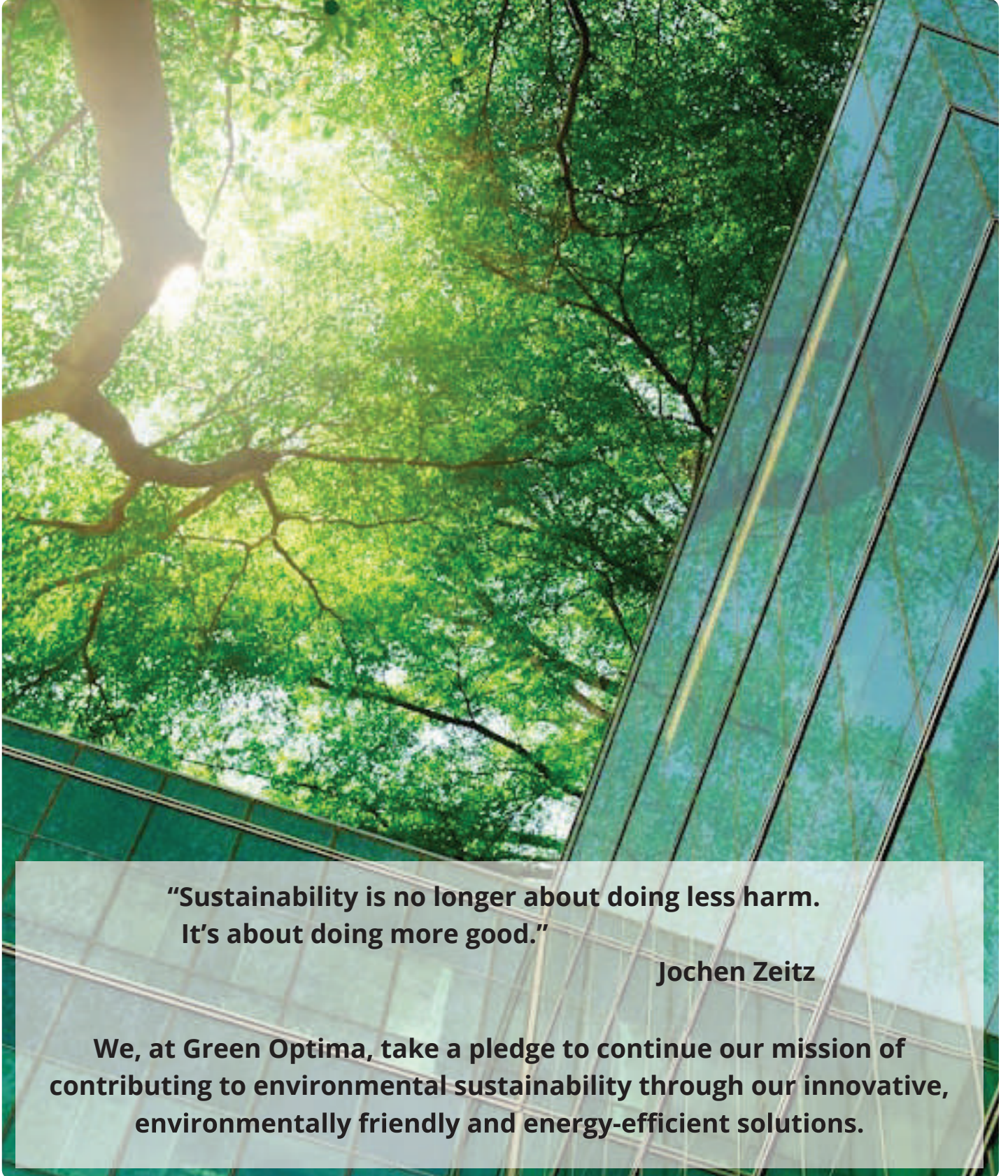


17.0-14 Tower



Raffles World Academy

SUSTAINABILITY PLEDGE



**“Sustainability is no longer about doing less harm.
It’s about doing more good.”**

Jochen Zeitz


We, at Green Optima, take a pledge to continue our mission of contributing to environmental sustainability through our innovative, environmentally friendly and energy-efficient solutions.


CLIENTS






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